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07/20/2005

Martin Geier

23135

1884

535

7590

04/28/2009

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EXAMINER

FISHER, ABIGAIL L

ART UNIT

PAPER NUMBER

1616

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/517,675	<b>Applicant(s)</b> GEIER ET AL.	
	<b>Examiner</b> ABIGAIL FISHER	<b>Art Unit</b> 1616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on January 23 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1 and 3-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 3-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

Receipt of Amendments/Remarks and Declaration filed on January 23 2009 is acknowledged (A second Declaration was filed on 03/03/09 which is basically the same as first one). Claim 2 was/stands cancelled. Claims 1, 4, 9, 11, 12, 17 and 21-22 were amended. Claims 25-28 were added. Claims 1, 3-28 are pending.

Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

#### ***Priority***

Receipt is acknowledged of a certified copy of the priority document *in this National Stage application from the International Bureau* submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### ***Claim Objections***

##### ***(New Objection)***

Claim 22 is objected to because of the following informalities: The claim has been amended however; in line 3 the line to cross the deleted material extends through the letter c. Therefore the line reads wherein components a, b and. Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

The rejection of claims 1-24 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention is **withdrawn** in light of Applicants' amendments filed on January 23 2009.

***Claim Rejections - 35 USC § 102***

***(Maintained Rejection)***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

**Claims 1, 8-9, 18 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Bosch et al. (Chem. Senses, 2000).**

Applicant claims a composition for attracting blood-sucking arthropods and/or fruit flies comprising an effective amount of at least one compound selected from Group I: alpha-hydroxycarboxylic acids, Group II: alpha-thiomonocarboxylic acids and alpha-thiodicarboxylic acids, and Group III: aryl substituted compounds of group I or II, at least one C<sub>4</sub>-C<sub>8</sub> carboxylic acid, and ammonia and/or primary amines.

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Bosch et al. is directed to the study of compositions comprising fatty acids and their ability to attract female *Aedes aegypti* (female mosquitoes aka blood-sucking arthropods). Figure 4 and Results section (page 325, responses to mixtures of two fatty acids, ammonia, and lactic acid) are directed to compositions comprising, lactic acid, ammonia, and C<sub>3</sub> and C<sub>5</sub> fatty acids. Lactic acid corresponds to a compound from group I, C<sub>5</sub> fatty acid corresponds to valeric acid and C<sub>3</sub> corresponds to propionic acid. The components were utilized in various different dilutions (figure 2), therefore a diluting agent (water was present).

### ***Response to Arguments***

Applicants argue that applicants believe that there is subject matter within the scope of all of these claims that is patentably distinguishable over all of the cited prior art references.

Applicants' arguments filed January 23 2009 have been fully considered but they are not persuasive.

Applicants only argue the merits of new claims 25-28 and do not specifically point out how the rejected claims are patentably distinguishable over the cited prior art. Therefore, the rejection is maintained since applicant has not provided any persuasive arguments to overcome the rejection.

### **Claim Rejections - 35 USC § 103**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Applicant Claims
2. Determining the scope and contents of the prior art.
3. Ascertaining the differences between the prior art and the claims at issue, and resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

**Modified Rejection Based on amendments in the reply filed on January 23 2009**

**Claims 5-7, 10-17, 19-20 and 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bosch et al.**

### **Applicant Claims**

Applicant claims the composition comprises lactic acid, caproic acid and ammonia. The ratio of Group I, II, or III to at least one C<sub>4</sub>-C<sub>8</sub> carboxylic acid and to ammonia and/or primary amines is from 1:0.01-100:0.01-10. The composition further comprises acetic acid.

### **Determination of the Scope and Content of the Prior Art (MPEP §2141.01)**

Bosch et al. is directed to the study of compositions comprising fatty acids and their ability to attract female *Aedes aegypti* (female mosquitoes aka blood-sucking arthropods). It is taught that L-lactic acid in combination with carbon dioxide works synergistically to attract yellow fever mosquito *Aedes aegypti* (page 323, left column, first paragraph). This study utilized single fatty acids in combination with lactic acid as well as combinations of fatty acids with lactic acid. The fatty acids that were the most effective were low (C<sub>1</sub> to C<sub>3</sub>) or medium (C<sub>5</sub> to C<sub>8</sub>) (page 325, right column, first paragraph). C<sub>6</sub> corresponds to caproic acid. C<sub>1</sub> corresponds to acetic acid. (figure 2) The amount of lactic acid utilized corresponds to 3 µg/min, the amount of ammonia corresponds to 5 µg/min, and the fatty acids were utilized in two different dilutions 5 and 500 µl in 50 ml of deionized water at different flow rates 3, 30, and 300 ml/min (page 324, application of the odor stimuli). It is taught that carbon dioxide plus the lactic acid mixture produces synergistic effect in terms of increased attractiveness (page 327, left column, first paragraph and Figure 5B). Lactic acid is taught as the indispensable synergist (page 327, right column, third paragraph).

### **Ascertainment of the Difference Between Scope the Prior Art and the Claims**

**(MPEP §2141.012)**

Bosch et al. do not explicitly teach the ratio of components claimed. Bosch et al. do not exemplify a formulation comprising caproic acid, lactic acid, and ammonia together or in further combination with acetic acid. Bosch et al. does not exemplify carbon dioxide in the formulation comprising the fatty acids, lactic acid, and ammonia. However Bosch et al. does indicate different concentrations that are suitable and indicates that both caproic acid and acetic acid are effective in attracting *Aedes aegypti*. Bosch et al. teach that carbon dioxide produces a synergistic effect in combination with lactic acid mixtures.

***Finding of Prima Facie Obviousness Rational and Motivation***  
**(MPEP §2142-2143)**

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to utilize a combination of lactic acid, caproic acid and ammonium in combination to attract blood-sucking arthropods. One of ordinary skill in the art would have been motivated to utilize this combination as Bosch et al. teach a combination of fatty acid, lactic and ammonium provide a synergistic combination in attracting *Aedes aegypti*. One of ordinary skill in the art would have been motivated to utilize caproic acid as it is a specific fatty acid taught as increasing the attraction of the *Aedes aegypti*. One of ordinary skill in the art would expect a synergist result as lactic acid is specifically taught by Bosch et al. as the indispensable synergist.

It would have been obvious to one of ordinary skill in the art to substitute acetic acid and caproic acid for the exemplified propionic and valeric acid. One of ordinary skill in the art would have been motivated to replace propionic and valeric acid with



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acetic acid and caproic acid as all are taught by Bosch et al. as functional equivalents. Furthermore, it would have been obvious to one of ordinary skill in the art at the time of the invention to engage in routine experimentation to the optimal combination of fatty acid to produce expected results. Where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation. **In re Aller, 220 F. 2d 454, 105 USPQ 233 (CCPA 1955).**

It would have been obvious to one of ordinary skill in the art to optimize the ratio of the components present in the formulations taught by Bosch et al. "The normal desire of scientists or artisans to improve upon what is already generally known provides the motivation to determine where in a disclosed set of percentage ranges is the optimum combination of percentages." *In re Hoeschele*, 406 F.2d 1403, 160 USPQ 809 (CCPA 1969). Therefore, one of ordinary skill in the art would have been motivated to vary the ratios of the components to determine what ratios will produce the optimal attracting composition.

It would have been obvious to one of ordinary skill in the art to include carbon dioxide in the attracting composition. One of ordinary skill in the art would have been motivated to include carbon dioxide as Bosch et al. teach that carbon dioxide produces a synergistic response in terms of attractiveness when utilized in combination with lactic acid mixtures.

Absent any evidence to the contrary, and based upon the teachings of the prior art, there would have been a reasonable expectation of success in practicing the

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instantly claimed invention. Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

***Response to Arguments/Declaration under Rule 132***

Applicants argue that applicants believe that there is subject matter within the scope of all of these claims that is patentably distinguishable over all of the cited prior art references.

Applicants' arguments filed January 23 2009 have been fully considered but they are not persuasive.

**The declaration** under 37 CFR 1.132 filed 3/3/09 is insufficient to overcome the rejection of claims 5-7, 10-17,19 and 25-26 based upon Bosch et al. as set forth in the last Office action.

Applicants only argue the merits of new claims 25-28 and do not specifically point out how the rejected claims are patentably distinguishable over the cited prior art. Therefore, the rejection of claims 5-7, 10-17 and 19 is maintained since applicant has not provided any persuasive arguments to overcome the rejection.

Regarding new claims 25-28, the applicants argue that (1) caproic acid, ammonia and lactic acid when used in combination they attract *Aedes aegypti* to a greater extent than when either each of the individual ingredients are utilized. Applicants argue that (2) the combination of caproic acid, ammonia and lactic when utilized together act in a synergistic manner. Applicants argue that (3) there is no specific disclosure in the

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reference of caproic acid in combination of lactic acid and ammonia. Applicants argue that (4) the exemplified combination in Figure 4 of Bosch et al. shows only about 68% attractiveness. However, the instant applicant has found that the combination of lactic acid, caproic acid and ammonia consistently produced attractiveness in the 85% range. These results are shown in the Declaration under Rule 132.

Regarding applicants' first argument, this observation that this particular combination worked to a greater extent than when the components were utilized alone is not surprising based on the teachings of Bosch et al. as Bosch et al. teach that an odor blend rather than single compound represents the attractive principle in the host odor for mosquitoes. Bosch et al. teach that the attractiveness of the fatty acids was only apparent when in combination with lactic acid and the same is true for ammonia. Therefore based on this teaching one of ordinary skill in the art would expect that the combination of fatty acid, ammonia and lactic acid would produce a greater attractant than the individual components.

Regarding applicants' second argument, Bosch et al. clearly teaches that lactic acid is an indispensable synergist. Therefore, one of ordinary skill in the art would expect a combination comprising lactic acid would be a synergist combination.

Regarding applicants' third argument, while Bosch et al. do not exemplify a combination of lactic acid, ammonia and caproic acid, a combination of lactic acid with ammonia and valeric acid, which is a homolog of caproic acid. Furthermore, Bosch et al. teach that the attractive blend emitted comprise fatty acids in combination with ammonia and lactic acid. Bosch et al. clearly teach that caproic acid is effective in

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increasing attractiveness. Therefore, one of ordinary skill in the art would have been motivated to utilize the other fatty acid taught as effective such as caproic acid in combination with lactic acid and ammonia. Furthermore, since caproic acid and valeric acid are homologs one of ordinary skill in the art would expect them to have similar properties. An obviousness rejection based on similarity in chemical structure and function entails the motivation of one skilled in the art to make a claimed compound, in the expectation that compounds similar in structure will have similar properties. *In re Payne*, 606 F.2d 303, 313, 203 USPQ 245, 254 (CCPA 1979). **MPEP 2144.09.**

Regarding applicants' fourth argument and the data presented in the declaration, the art recognizes that combination of lactic acid, ammonia and fatty acid is more effective than the single components in attracting *Aedes aegypti*. The difference between the instant application and that of Bosch et al. is the claimed ratio. Therefore, the unexpected results must demonstrate the criticality of the claimed range. The ratio of lactic acid to caproic acid to ammonia taught in Bosch et al. corresponds to about 1:100:1.6 (based on the amounts taught in Bosch et al.). The difference between this ratio and that of the results shown in the table on page 5 of the declaration is the amount of caproic acid. While the data shows that ratios falling within the claimed range do produce synergistic results, entries 4 and 6 which do not fall in the claimed range show an attractiveness of 87% and 83%, whereas entry 10 which falls within the claimed range and only has an attractiveness of 34%. This data would indicate that the claimed ratio is not critical for attractiveness. Therefore, the declaration is insufficient in overcoming the rejection over Bosch et al.

Therefore, the rejection is maintained since applicant has not provided any persuasive arguments to overcome the rejection.

**Modified Rejection Based on amendments in the reply filed on January 23 2009**

**Claims 4, 21-22 and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bosch et al. in view of Heath et al. (US Patent No. 5907923).**

**Applicant Claims**

Applicant claims the ammonia is from an ammonium releasing compound. Applicant claims that at least one of the components is spatially separated and not in admixture with each other. Applicant claims that the components are located in separated containers or vials.

**Determination of the Scope and Content of the Prior Art  
(MPEP §2141.01)**

The teachings of Bosch et al. are set forth above. Specifically, Bosch et al. teach formulations for attracting *Aedes aegypti* comprising lactic acid, fatty acids, and ammonia.

**Ascertainment of the Difference Between Scope the Prior Art and the Claims  
(MPEP §2141.012)**

Bosch et al. do not teach that the ammonia is from ammonia releasing compounds. However, this deficiency is cured by Heath et al.

Heath et al. is directed to a trapping system for fruit flies. It is taught that ammonia, acetic acid (from ammonium acetate), and putrescine are used in combination to attract fruit flies (column 8, lines 11-13). It is taught that the ammonia, acetic acid, and putrescine are utilized without interference from other chemicals.

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***Finding of Prima Facie Obviousness Rational and Motivation  
(MPEP §2142-2143)***

It would have been obvious to one of ordinary skill in the art to combine the teachings of Bosch et al. and Heath et al. and utilize ammonium acetate and putrescine in the composition of Bosch et al. One of ordinary skill in the art would have been motivated to utilize this form of ammonia in combination with putrescine for the added benefit of attracting fruit flies as taught by Heath et al.

It would have been obvious to one of ordinary skill in the art to combine the teachings of Bosch et al. and Heath et al. and utilize the components in separate vials. One of ordinary skill in the art would have been motivated to keep the chemicals in separate vials as a way to avoid interference between the chemicals as taught by Heath et al.

Absent any evidence to the contrary, and based upon the teachings of the prior art, there would have been a reasonable expectation of success in practicing the instantly claimed invention. Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

***Response to Arguments***

Applicants argue that the teachings of Heath et al. do not remedy the deficiencies of Bosch et al.

Applicants' arguments filed January 23 2009 have been fully considered but they are not persuasive.

As argued above, applicants' arguments are not persuasive over the teachings of Bosch et al. and therefore the rejection is maintained.

**Modified Rejection Based on amendments in the reply filed on January 23 2009**

**Claims 3 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bosch et al. and in view of Heath et al. and Bernier et al. (US PG PUB No. 20020028191).**

**Applicant Claims**

Applicant claims that the aryl group is a phenyl group. Applicants claim the composition further comprises a means for controlled release of the components.

**Determination of the Scope and Content of the Prior Art  
(MPEP §2141.01)**

The teachings of Bosch et al. and Heath et al. are set forth above. Specifically, Bosch et al. teach formulations for attracting *Aedes aegypti* comprising lactic acid, fatty acids, and ammonia.

**Ascertainment of the Difference Between Scope the Prior Art and the Claims  
(MPEP §2141.012)**

Bosch et al. do not teach utilizing aryl compounds. Bosch et al. do not teach adding a controlled release means. However, this deficiency is cured by Bernier et al.

Bernier et al. is directed to chemical compositions that attract arthropods. The compositions include chemicals of formula I and at least one compound from group II (claim 22). Compounds of formula I include lactic acid (claim 40). Compounds of group II include C<sub>6</sub>-C<sub>10</sub> aryl groups, specifically p-cresol, phenol, or toluene (claim 35). The

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aryl groups can be substituted with H, halogen, OH, SH, COOH, etc. (claim 22). It is taught that the addition of a slow release chemical mechanism such as paraffin provides a means to reduce the evaporation rates of the composition (paragraph 0245).

***Finding of Prima Facie Obviousness Rational and Motivation  
(MPEP §2142-2143)***

It would have been obvious to one of ordinary skill in the art to combine the teachings of Bosch et al., Heath et al., and Bernier et al. and utilize aryl compounds. One of ordinary skill in the art would have been motivated to utilize aryl compounds as Bernier et al. teach these compounds in combination with lactic acid are utilized for attractants of *Aedes aegypti*. One of ordinary skill in the art would have been motivated to select aryl acids as Bernier et al. teach aryl compositions as well as that these compositions aryl compounds can be substituted with acid (COOH) groups.

It would have been obvious to one of ordinary skill in the art to combine the teachings of Bosch et al., Heath et al., and Bernier et al. and utilize paraffin in the composition as a way to reduce the evaporation rates of the composition as taught by Bernier et al.

Absent any evidence to the contrary, and based upon the teachings of the prior art, there would have been a reasonable expectation of success in practicing the instantly claimed invention. Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.



***Response to Arguments***

Applicants argue that the teachings of Heath et al. and Bernier et al. do not remedy the deficiencies of Bosch et al.

Applicants' arguments filed January 23 2009 have been fully considered but they are not persuasive.

As argued above, applicants' arguments are not persuasive over the teachings of Bosch et al. and therefore the rejection is maintained.

***Conclusion***

No claims are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to ABIGAIL FISHER whose telephone number is (571)270-3502. The examiner can normally be reached on M-Th 9am-6pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Abigail Fisher  
Examiner  
Art Unit 1616

AF

/Mina Haghighatian/  
Primary Examiner, Art Unit 1616